AMENDMENTS TO THE CLAIMS

1. (Withdrawn) A monomer of formula (lm):

$$P-Ar-N-Ar \begin{pmatrix} N-Ar \\ R \end{pmatrix} n$$
(Im)

wherein each Ar is the same or different and independently represents an optionally substituted phenyl or biphenyl; Ar¹ represents an optionally substituted phenyl or biphenyl; each P is the same or different and independently represents a leaving group capable of participating in metal insertion with a nickel or palladium complex catalyst; n is at least 2; and each R is a group of formula (II):

wherein G is hydrogen or a substituent selected from C_{1-20} alkyl; C_{1-20} alkoxy; C_{1-20} fluoroalkyl; C_{1-20} perfluoroalkyl; and fluorine.

- 2. (Withdrawn) A monomer according to claim 1 wherein each P is the same or different and is independently selected from halogen; a reactive boronic group selected from a boronic acid group, a boronic ester group and a borane group; a group of formula –B-Hal₃ M⁺ or DZ-B-Hal₃ wherein each Hal independently represents a halogen, M represents a metal cation and DZ represents diazonium; a group of formula wherein each Hal independently represents a halogen and M represents a metal cation a group of formula O-SIR⁷₃ wherein each R⁷ independently represents an optionally substituted alkyl or aryl; or a moiety of formula –O-SO₂-Z wherein Z is selected from the group consisting of optionally substituted alkyl and aryl.
- 3. (Withdrawn) A monomer according to claim 1 wherein n is 2 or 3.
- 4. (Withdrawn) A process for preparing a polymer comprising the step of polymerizing the monomer of formula (lm')

$$P-Ar-N-Ar^{1}\begin{pmatrix} N-Ar \\ R \end{pmatrix}_{n}P$$

$$(lm')$$

wherein each Ar is the same or different and independently represents an optionally substituted aryl or heteroaryl; Ar¹ represents an optionally substituted aryl or heteroaryl; each R is the same or different and independently represents a substitutent; each P is the same or different and independently represents a leaving group capable of participating in metal insertion with a nickel or palladium complex catalyst; and n is at least 2.

- 5. (Withdrawn) A process according to claim 4 wherein each P is independently a halogen or a moiety of formula –O-SO₂-Z and the monomer of formula (lm) is polymerized in the presence of a nickel complex catalyst.
- 6. (Withdrawn) A process according to claim 4 wherein each P is independently a halogen or a moiety of formula –O-SO₂-Z, the monomer of formula (lm) is polymerized with a second monomer having at least two reactive boron functional groups independently selected from a boronic acid group, a boronic ester group and a borane group, and the polymerization is performed in the presence of a palladium complex catalyst and a base.
- 7. (Withdrawn) A process according to claim 4 wherein each P is independently a reactive boron functional group selected from a boronic acid group, a boronic ester group and a borane group; the monomer of formula (lm) is polymerized with a second monomer having at least two substitutents independently selected from halogen or a moiety of formula –O-SO₂-Z; and the polymerization is performed in the presence of a palladium complex catalyst and a base.
- 8. (Withdrawn) A process according to claim 4 wherein one P is a halogen or a moiety of formula –O-SO₂-Z and the other P is a reactive boron functional group selected from a boronic acid group, a boronic ester group and a borane group, and the polymerization is performed in the presence of a palladium complex catalyst and a base.
- 9. (Withdrawn) A process according to claim 4 wherein the monomer of formula (lm) is polymerized with a second monomer selected from the group consisting of optionally substituted aryl and heteroaryl groups.

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10. (Withdrawn) A process according to claim 9 wherein the second monomer is selected from the group consisting of optionally substituted phenyl, fluorene, spirobifluorene, indenofluorene and heteroaryl.

11. (Original) A co-polymer comprising a first repeat unit of formula (lr) and a second repeat unit Ar²:

$$\begin{array}{c}
-Ar-N-Ar^{1}\left(N-Ar\right) \\
R \\
\end{array}$$
(Ir)

wherein each Ar is the same or different and independently represents an optionally substituted aryl or heteroaryl; Ar¹ represents an optionally substituted aryl or heteroaryl; each R is the same or different and independently represents a substitutent; n is at least 2; and Ar² represents an optionally substituted aryl or heteroaryl that has a backbone consisting of aryl or heteroaryl groups and that is directly linked and conjugated to Ar of the first repeat unit of formula (lr).

- 12. (Original) A co-polymer according to claim 11 wherein Ar² is selected from the group consisting of optionally substituted phenyl, fluorene, spirobifluorene, indenofluorene and heteroraryl.
- 13. (Withdrawn) An optical device comprising a first electrode for injection of charge carriers of a first type, a second electrode for injection of charge carriers of a second type and a polymer according to claim 11 located between the first and second electrodes.
- 14. (Withdrawn) A method of forming an optical device comprising
 - depositing from solution a polymer according to claim 11 onto a substrate carrying a first electrode for injection of charge carriers of a first type, and
 - depositing over the polymer a second electrode for injection of charge carriers of a second type.
- 15. (Withdrawn) A switching device comprising a polymer according to claim 11.

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16. (Withdrawn) A field effect transistor comprising, in sequence, a gate electrode; an insulator; a polymer according to claim 11; and a drain electrode and a source electrode on the polymer.

- 17. (Withdrawn) An integrated circuit comprising a field effect transistor according to claim 16.
- 18. (New) The co-polymer according to claim 12, wherein Ar² is spirobifluorene.
- 19. (New) The co-polymer according to claim 12, wherein Ar² is indenofluorene.
- 20. (New) The co-polymer according to claim 12, wherein Ar² is phenyl or heteroraryl.

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